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accumulated knowledge, and together with other branches of research, the tendencies of the future evolution of man and lay down indications for its possible regulation or improvement.

A few words in conclusion regarding the duties of physical anthropology in this country and in America in general. American students ought to contribute, as much as lies in their power, to knowledge concerning the white race at large and of other peoples outside of this continent with its dependencies. They have already added in no small degree to the study of child growth and should not stop in this direction; they should also cooperate in all investigations concerning special, environmental and pathological, groups of humanity. But there are several problems which will be to them of especial importance and demand the bulk of their labor. These are: (1) The appearance of man in America; (2) the composition and detailed characteristics, with their complete range of variation, and the affinities, of the indigenous race, including the Eskimo; (3) the crystallization of the new contingents of the white race in America, particularly in the United States; (4) the development of the negro element, especially in this country; and (5) the effects of the mixture of the white with the negro and the Indian. Beside these range themselves parallel problems affecting the insular possessions of the United States. All these are scientifically, as well as practically, serious questions, and research into them deserves to be generally promoted. There is no other branch of natural science which can occupy itself with them and define them; they are the rôle of physical anthropology in this country and demand its development.

ALEŠ HRDLIČKA

U. S. NATIONAL MUSEUM

THE HANOVER MEETING OF THE AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

THE special summer meeting of the American Association for the Advancement of Science held at Hanover, N. H., on the invitation of Dartmouth College, from June 29 to July 2, took place in accordance with the program that has already been printed in *SCIENCE*. The local committee, with Dean Robert Fletcher as chairman and Professor H. H. Horne as secretary, had made admirable arrangements for the reception and entertainment of members, and the college campus and buildings and the beautiful surrounding country were of even greater interest than had been anticipated.

The meeting was called to order at 8 P.M. on June 29 in the auditorium of Dartmouth Hall, and an address of welcome was given by the acting president of the college, Dr. John King Lord, who drew attention to the large place science now has in the college curriculum as compared with the conditions when the college was founded some one hundred and forty years ago. The president of the association, Dr. T. C. Chamberlin, of the University of Chicago, responded on behalf of the association and the visiting members. He laid stress on the increasing use of the scientific method in all subjects included in the college course and the importance of this movement for the future of society.

On Tuesday and Wednesday, June 30 and July 1, Section B and Section E of the association held sessions for the reading of scientific papers in conjunction with the American Physical Society and the Geological Society of America. Reports of the proceedings will be published subsequently in this journal. On the evening of June 30, Professor J. W. Spencer gave a public lecture entitled "The Spoliation of Niagara," and on July 1 Mr. J. S. Palmer lectured on "The American

Bison." On the following day, there was a general excursion to the Blue Mountain Forest Park, established by the late Mr. Austin Corbin to preserve the buffalo, moose, elk and other large animals of the American wilderness now threatened with extinction. Before, during and after the meeting there were excursions of much interest, arranged by the sections of geology and geography. An account of these will be published later.

The committee on policy of the association held a meeting with Messrs. Woodward, Chamberlin, Britton, Cattell, Nichols and Howard in attendance. In view of the facts that only two sections met at Hanover and that the attendance was small, it was decided that all business for the council should be postponed to the Baltimore meeting. It was announced, however, that Professor John Dewey, of Columbia University, had been elected chairman of the Section of Education; that the American Medical Association, the American Society of Mechanical Engineers and the American Institute of Electrical Engineers will hereafter be represented on the council of the association; that the membership of the association now exceeds 6,000, and that progress had been made in the arrangements for a meeting in Hawaii in the summer of 1910. As the permanent secretary wishes to know who is likely to attend this meeting, the letter from the Hawaiian committee is printed here.

Hawaii Committee
1910 Convention
American Association
For the Advancement of Science.
GOVERNOR W. F. FREAR, *Chairman*.
A. F. GRIFFITHS, *Vice-Chairman*.
A. F. JUDD, *Secretary*.

HONOLULU, T. H.,
June 12, 08.

DR. L. O. HOWARD, *Secretary*,
American Association for the
Advancement of Science.
Hanover, N. H.

Dear Sir: At a meeting called by Acting Governor E. A. Mott-Smith at the Governor's office to consider your letter in reference to the invitation of the American Association for the Advancement of Science to hold its convention, summer meeting, in 1910 in Hawaii, the invitation was cordially endorsed. The expressions of opinion left no doubt that the Association would receive a hearty welcome in Hawaii.

The following resolutions were adopted:

Resolved, That it is the sense of this meeting that a reply to the letter of Dr. L. O. Howard, Permanent Secretary of the American Association for the Advancement of Science, dated May 12, 1908, stating that an invitation had been received for the Association to hold a meeting in Hawaii in the summer of 1910, which invitation had been tentatively accepted, "provided suitable arrangements can be made," and wherein he asks certain questions, be replied to, as follows:

First. That the invitation to the Association to come to Hawaii is one which the people of the Islands generally and heartily approve.

Second. That the Association will be more than welcome.

Third. That the committees on reception and arrangements can and will be formed, consisting of the leading people of the Territory; that it is our belief that special expressions to this effect will be formally adopted at an early date by all the leading scientific, educational, commercial, political and social organizations in Hawaii.

Fourth. That entertainment at Honolulu will be furnished free to a large proportion of the members of the Association, and at greatly reduced rates to the remainder of them.

Fifth. That the question of transportation offers the greatest problem in connection with the invitation. As to this point, it is the belief of this meeting that the problem can be solved satisfactorily.

An organization was at once effected which will do everything possible to bring the Association to Hawaii and to provide for the entertainment of members who come. The list of the members of this representative organization follows:

W. F. Frear, Governor of Hawaii, *Chairman*.
A. F. Griffiths, President of the Trustees of the Oahu College, *Vice-Chairman*.
A. F. Judd, lawyer, *Secretary*.
E. A. Mott-Smith, Secretary of Hawaii.
Jared G. Smith, Director Hawaii Experiment Station.
F. L. Waldron, commission merchant, Chairman Hawaii Promotion Committee.
C. S. Holloway, Engineer, President and Execu-

tive Officer, Board of Commissioners of Agriculture and Forestry.

P. L. Horne, President, Kamehameha Schools.

D. L. Van Dine, Entomologist, Hawaii Experiment Station.

C. F. Eckhart, Chemist, Hawaiian Sugar Planters' Experiment Station.

S. B. Dole, U. S. District Judge, Ex-Governor, etc.

R. A. Duncan, Territorial Food Commissioner.

W. T. Brigham, Director Bernice P. Bishop Museum.

W. R. Brinkerhoff, U. S. Public Health and Marine Hospital Service.

H. R. Trent, President, Trent Trust Company.

L. A. Thurston, lawyer.

W. A. Bryan, President, Pacific Scientific Institute.

J. E. Higgins, Hawaii Experiment Station.

F. G. Krauss, Hawaii Experiment Station.

L. Lewton-Brain, Hawaii Sugar Planters' Experiment Station.

R. S. Hosmer, Territorial Forester.

A. Gartley, Manager, Hawaiian Electric Company, Regent College of Hawaii, etc.

This organization will include later many others who will join in the welcome and entertainment of the Association.

The officers are Governor Walter F. Frear, Chairman; A. F. Griffiths, Vice-Chairman; A. F. Judd, Secretary.

I send you herewith copies of resolutions and letters from practically all the scientific, educational, social and commercial organizations in the city whose assurances of good-will and support fairly voice the unanimous feelings of the community.

The generous offer of the Trustees of the Oahu College of the free use of the College Halls for the meetings of the Association and its sections assure the Committee of satisfactory and adequate places in which to hold the meetings of the convention. The satisfactory entertainment of the members is certain. Many will receive invitations to be guests in private homes. Many may prefer to live in the College Dormitories. The hotel accommodations of the city in addition are admirable.

The question of cheap transportation has already been taken up by the Committee. In this matter, we shall wish and shall need your cooperation as well as that of the other officers and members of the Association. The Committee is sanguine that a fairly good rate can be secured.

We hope that the advantages as well as the pleasure of holding the convention in Hawaii will be brought out in both the Hanover and Baltimore meetings. We are now preparing a statement of the unusual opportunities for scientific

study that Hawaii offers. We shall have this ready for your use at an early date.

Assuring you that Hawaii will royally welcome and entertain as many members as can come to the 1910 convention, we remain,

Very truly yours,

(Sgd.) A. F. JUDD,
Secretary

A. F. GRIFFITHS,
Vice-Chairman

SCIENTIFIC NOTES AND NEWS

At the centenary celebration of the founding of the Vienna Physico-Medical Society on June 27, Dr. Charles Sedgwick Minot, Stillman professor of comparative anatomy in the medical school of Harvard University, and Dr. Jacques Loeb, professor of physiology in the University of California, were elected corresponding members.

On commencement day at Mount Union College, Alliance, Ohio, the degree of doctor of laws was conferred on President Charles Sumner Howe, of the Case School of Applied Science.

On the occasion of the installation of Lord Rayleigh as chancellor of the University of Cambridge, the degree of doctor of laws was conferred on the following men of science: The Hon. C. A. Parsons, Sir Andrew Noble, Sir William Crookes, Professor H. Lamb and Professor George Downing Liveing.

PROFESSOR GRASSI, eminent for his work on malaria and other subjects, has been created a senator of the kingdom of Italy.

DR. JOHANN GOTTFRIED GALLE, from 1851 to 1895 professor of astronomy and director of the observatory at Breslau, has celebrated his ninety-sixth birthday.

SIR JAMES DEWAR, F.R.S., has been elected an associate of the Belgian Academy.

DR. J. W. L. GLAISHER, F.R.S., has been awarded the De Morgan medal of the London Mathematical Society.

THE Bunsen medal of the German Bunsen Society for Applied Chemistry has been awarded to Professor F. Kohlrausch, of Marburg.